DENON

SERVICE MANUAL

MODEL POA-T2/T3 MODEL POA-3200

STEREO POWER AMPLIFIER



POA-3200



POA-T2



POA-T3

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NIPPON COLUMBIA CO., LTD.



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVIC-CAUTION: TO REDUCE THE RISK OF ELECTRIC ING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is inwithin the product's enclosure that may be of sufficient magnitude to constitute tended to alert the user to the presence of uninsulated "dangerous voltage" a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

安全注意事項



RISK OF ELECTRIC SHOCK DO NOT OPEN

背)。機身內並無用戶修理用零件。請交由專業修理人員修理本機。 注意:為減少觸電危險,切勿拆下機殼(或機

三角形內有箭頭的閃電符號旨在提醒用戶,本產品機殼內有未經絕緣的"危 險電壓",其幅度足以使人觸電而發生危險。

三角形內加感嘆號旨在提醒用戶,有重要的操作與維修説明書配合本機。

警告:為減少着火或觸電危險,切勿讓本機受雨淋濕或受潮。

NOTE ON USE



Do not let foreign objects in the set.

Avoid high temperatures
Allow for sufficient heat dispersion
when installed on a rack.

Do not let insecticides, benzene, and thinner come in contact with the set.

Unplug the power cord when not using the set for long periods of time.

Never disassemble or modify the set in any way.

*(For sets with ventilation holes)

Handle the power cord carefully. Hold the plug when unplugging the cord.

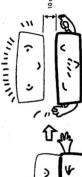
Do not obstruct the holes.

Please check to make sure the following items are included with the main unit in the carton:

(1) Operating Instructions (2) Remote Power Cord ... (3) AC Power Cord

Aways keep the POWER switch on the main unit turned on.
 Ium the power on and off from the remote control unit of the preamont inferfaVMP-A1, etc.).
 Jupidig the power cord when you do not plan to use the unit for a long period of time.

PRECAUTIONS FOR INSTALLATION
Leave at least 10cm of space between this unit and any
other component placed above.



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NAMES AND FUNCTIONS OF PARTS

When this switch is pressed, the power is turned on, the POWER indicator 🕲 flashes for some seconds and then Power switch (POWER)

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With the POA-13, the POA-12 parts change to the POA-13.

FRONT PANEL

When this switch is pressed again, the power is turned off. lights steadily, and stable operation condition is reached.

Power indicator 0

This lights orange when the power is on, and turns red when the power is turned off with remote terminal 🕃

Speaker selector buttons (SPEAKERS)

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HX.

. ©

When button A is set to the "ON (-)" position, sound is produced from the speaker systems connected to the

"A" speaker terminals. When button B is set to the "ON (-)" position, sound is produced from the speaker systems connected to the "B" speaker terminals. When both the A and B buttons are set to the "ON (\blacksquare)" position, sound is produced from the speaker systems

When both the A and B buttons are set to the "OFF (💻)" position, no sound is produced from the speaker sysconnected to both the "A" and "B" speaker terminals. tems. Use this when listening over headphones.

Speaker System terminal (SPEAKER SYSTEMS)

Connect the speaker systems here.

Remote terminal (REMOTE ON-OFF) 6

This terminal is used for remote control of the pre-amplifier. A low-voltage DC current is emitted from the terminal to turn on the power of a DENON pre-amplifier.

The main unit's power can be turned on and off with the pre-amplifier's remote control unit when the pre-amplifier and main unit's input terminal are connected with the included cable. When the main unit's output terminal is connected to the input terminal of another power amplifier, the other power amplifier's power can be turned on and

AC IN

0

0.0

(O)

POA-T3

REAR PANEL

Connect this to a power outlet using the included AC power cord.

Input terminal (INPUT) This is a input terminal (RCA connector). Connect it the pre-amplifier's pre-out terminal. 0

Various protector circuits are included in this unit. The output is interrupted in the following case:

- Muting time, which lasts for several seconds after the power is turned "on".
 When the offset voltage of the power amplifier has drifted outside the prescribe.
 When the temperature of the power amplifier is abnormally high.
 When a speaker terminal is shorted or a speaker's impedance is extremely low.
- When the offset voltage of the power amplifier has drifted outside the prescribed range. When the temperature of the power amplifier is abnormally high.

This set is equipped with a heat-dispersing motor fan. The motor fan operates when it senses that the temperature inside the set is high and the heat must be dispersed.

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POA-T2

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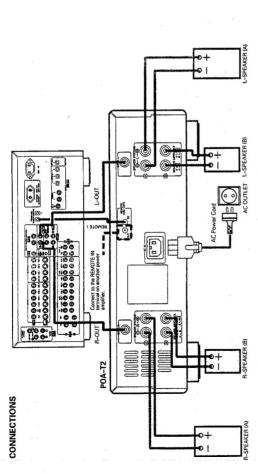
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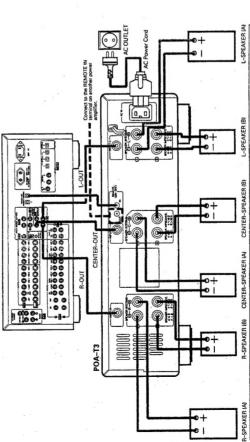
LUCASFILM X

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- Precautions When Making Connections

 Do not plug the power cord into the power outlet until all the connections have been completed.

 After checking the left, center and right channels, whice proper connections: L with L, C with C and R with R.

 After checking the left, center and right channels, will cause noise to be generated.

 Insert the plugs securely, incomplete connections, will cause noise to be generated.

 Note that bundling pin-plug cords with the power cord or placing pin-plug cords close to the power transformer might lead to the occur.

- Connection to the speaker system
 When connecting the speaker terminals to the speaker systems, make certain to connect the polarities correctly (+ to + and - to -). If the polarities are incorrect when the two are connected, the center area of the sound will be lacking, the positions of the musical instruments will not be clear, and the stereo directional sensitivity will be impaired.
 - During connection, be careful that the center wires in the speaker cords do not protrude from the terminals to
 contact any other terminal, and that the central wires in the separate speaker cords do not contact each other.

Speaker impedance

- When only one of the A or B terminals is used, the speakers that are to connected should have a nominal imped-
- ance of 4 to 16 Q/ohms.

 When the two sets (A + B) are to be used at the same time, use of speakers whose impedance is outside the range from 8 to 16 Q/ohms will result in malfunction. Be careful not to let this happen.
 - Speakers with a lower impedance may cause the protective circuitry to operate.

Rate of Output Power: Rate of Output Power: Rate of Output Power: Rate of Output Power: Col Mar. Out Mhr. If H.D. 0.02% 200 W Left_x T.H.D. 0.65% 200 W Left_d Harmonic Distortion: 0.008% Left_d Harmonic Distortion: 0.002% Rochoms Col Mar. In the modulation Distortion: 0.002% Rochoms Rochoms 0.002% Roc	input impedence: Normal in: Output impedance: S/N Ratio: (IHF, A-weighting) (Normal) Output Terminals: Speakers Speakers A or 8 42/ohms ~ 16 0/ohm A + 8 82/ohms ~ 16 0/ohm Power Supply: Power Consumption: 12 Dimensions: (Including control knobs and feet)	47 kΩ/kohms 0.1 Q/ohms (1 kHz) 110 dB ss AC 230 V/50 Hz POA-13 470 W POA-12 330 W 434 (VI) x 135 (H1 x 353 (D)mm
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Specifications and contents are subject to change without notice for purposes of improvement

TROUBLESHOOTING

Before troubleshooting, be sure to check whether your audio system is really the source of the problem.

If you think the amplifier is out of order, first check the following one more time:

1. Are all the connections correctly made?

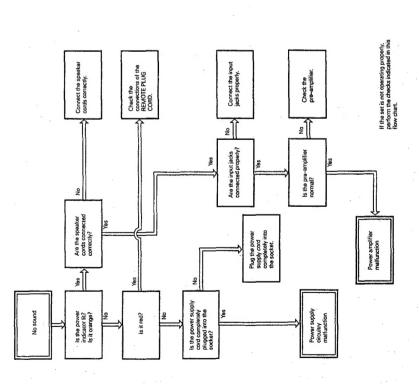
2. Is the set being operated properly in accordance with the Operating Manual?

3. Are the speakers and pre-amplifier being operated correctly?

18. Are the speakers and pre-amplifier being operated correctly?

19. The the set does not operate properly, perform the checks indicated in the flow chart below.

19. If none of the items listed apply to the difficulty, the amplifier is probably out of order. Turn off the power immediately, and contact the outlet where you purchased the amplifier or your nearest DENON dealer.



SAFETY INSTRUCTIONS

RISK OF ELECTRIC SHOCK

DO NOT OPEN

SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVIC-TO REDUCE THE RISK OF ELECTRIC ING TO QUALIFIED SERVICE PERSONNEL.

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The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. a risk of electric shock to persons.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FOR U.S.A. & CANADA MODEL ONLY

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS IPO-LARIZEO PLUG WITH AN EXTENSION CORD, RECEPIACLE ORTHER OUTLET UNLESS THE BLADES CAN BE FULLY IN-SERTED TO PREVENT BLADE EXPOSURE.

POUR LE MODELE CANADIEN UNIQUEMENT ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILIS.
ER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR
UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PELUVENT ETRE INSEREES A
FOND SANS EN LAISSER AUGUNE PARTIE A DECOUVERT.

NUR FÜR EUROPÄISCHE MODELLE

Konformitätserklärung

Die DENON Electronic GmbH Halskestraße 32 40880 Ratingen Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fennsch-Handfunkennplagenach der Amtsblattverfügung 868 / 1989 (Amtsblatt des Bundesministens für Post und Telekommunikation vom 31. 8. 1889) entsprint.

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
 - Retain Instructions The safety and operating instructions should be retained for future reference.
- - Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to. Follow Instructions – All operating and use instructions
- near water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a Water and Moisture - The appliance should not be used should be followed.
- Carts and Stands The appliance should be used only with a cart or stand that is recommended by the swimming pool, and the like. manufacturer.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven combination to overturn. surfaces may cause the appliance and cart eA.



17.

18

Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

- location or position does not interfere with its proper verilocation or position does not interfere with its proper veritradion. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may
 block the ventilation openings; or, placed in a built-in
 instellation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings. Ventilation - The appliance should be situated so that its
 - sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat. Heat - The appliance should be situated away from heat
- a power supply only of the type described in the operating instructions or as marked on the appliance. Power Sources ~ The appliance should be connected to 0.
- so that the grounding or polarization means of an appliance is not defeated. Grounding or Polarization – Precautions should be taken =

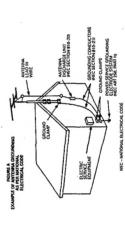
- routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying paricular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance. 12.
- Cleaning The appliance should be cleaned only as recommended by the manufacturer. 4
- Power Lines An outdoor antenna should be located away from power lines. Ö.
- is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code. ANSI/NEPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding on the lead-in wire to an antenna-discharge unit, see of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the ground-Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system ing electrode. See Figure A. 16.
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclo-Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
 - Damage Requiring Service The appliance should be serviced by qualified service personnel when: sure through openings.

9

- A. The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
 - c. The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or The appliance has been dropped, or the enclosure

damaged.

Servicing – The user should not attempt to service the ap-pliance beyond that described in the operating instruc-tions. All other servicing should be referred to qualified service personnel. 20.



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- NOTE:

 1. Always keep the POWER switch on the main unit turned on.

 2. Turn the power on and off from the remote control unit of the pre-amplifier.
 - (PRA-S10, etc.).

Unplug the power cord when you do not plan to use the unit for a long period of time. If only the STANDBY indicator is fit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit of the pre-amplifier (PRA-S10, etc.).

Weinride STMDBY-Anzeige leuchtet, bedeutet dies, das der Strammit dem Fernbodienungsgefäl ausgeschältet worden ist. Schalten Sie den Strom mit dem Fernbodienungsgerigt des Vorversüfskers (PRA-S10 uwv.) en.

- S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale
- and to do to the state of the s

Si seulement l'indicateur STANDBY lattente) est allumé, cela signifie que l'appareit est éteint à l'aide de la télécommande. Allumer l'appareit avec la télécommande du préamplificateur (PRA-S10, etc.).

- NOTA:

 1. Tenete sempre l'interruttore della corrente (POWER) dell'unità principale nella
- Spegnete e accendete la corrente usando it telecomando del preamplificatore (PRA-S10, ecc.). Scollegate il filo di alimentazione quando avete intenzione di non usare l'appa-recchio per un lungo periodo.

Sesolo l'indicatore STANDBY fattesa) è illuminato, ciò significa che la corrente è stata spenta usando il telecomando, Riaccendate la corrênte usando il telecomando del preamplificatore (PRA-S10, ecc.).

PRECAUTIONS FOR INSTALLATION
Leave at least 10 cm of space between this unit and any other component placed

Gerät und der ande-SICHERHEITSMASSNAHMEN BEIM EINBAU Lassen einen Mindestabstand von 10 cm zwischen diesem ren Komponente, die daraufgestellt wird.

PRECAUTIONS D'INSTALLATION

Prévoir un espace d'au moins 10 cm entre l'unité et tout

PRECAUZIONA PER L'INSTALLAZIONE Lasciate uno spazio libero di almeno 10 cm tra quest'unità e qualsiasi altro compo-nente che è collocato sopra la stessa.

• B

vota: I. Mantenga siempre activado el interruptor de alimentación (POWER) en la uni-

ENGLISH

- Conecta y desconecte la alimentación mediante la unidad de control remoto da reemphificación AA-S10, etc.
 Candob la unidad vaya a estar futan de uso por un período prolongado de tiem-po, desconecte el cable de alimentación.

(1) Operating Instructions (2) Remote Power Cord ...

(3) AC Power Cord

DEUTSCH

PRECAUCION:

Cuando solo el indicador STANDBY lespera) esté encandido, significaré que la elimentación ha sido desconectada desde la unidad de control remoto Concete la elementación mediante la unidad de control remoto del preamplificador (PRA-S10, etc.).

- - Zorg er altijd voor dat de stroomschakelaar (POWEA) van het hoofdto
- de ingeschakeide stand staat. Schakel de spanning in en uit met de afstandsbediening van de voorversterker (PRA-S10, enz.). Trek het netsnoer uit wanneer u denkt het toestel gedurende een lange perid de niet te gebruiken.

Als enkel de STANDBY-indicator brandt, betekent dit dat de spanning is uitgeschakeld met de alstandsbediening. Schakel de spanning in met de afstandsbediening van de voorversterker (PRA-S10, enz.).

- OBSERVERA:
- Låt alltid strömbrytaran (POWER) på huvudanhetan vara påslagen. Slå strömman till och från via fjärrkontrollen som medföljer förförstärkaren (PRA-S10 m fl). Koppla loss nätkabein om apparaten inte skall användas under lång tid.
- VARNING:
 Om endast strömindkatom lyser betyder det att strömmen har stängts
 av via fjärkfontrollen. När du sedan slår på strömmen igen måste denta
 av via fjärkfontrollen. När du sedan slår på strömmen igen måste denta
 gödes från fjärkfontrollen som meddöjger forforstaktaren i PRA-510 m flu.

Mantenha o interruptor da Correnta (POWER) na unidade principal sempri

- Ligue e destigue a corrente a partir da unidade de controlo remoto do pré-amplificador (PRA-S10, etc.). Desconecte o fio de força quando intentar não utilizar a unidade por fongo

PRECAUÇÃO:

Se apenas estiver iluminado o indicador de aguardar (STANDBY), isto significa que a corrente está destigada a partir da unidade de controlo remoto. Ligue a corrente a partir da unidade de controlo remoto do pré-mamplicador (PRA-S10, etc.).

PRECAUCIONES PARA LA INSTALACION Deje por lo menos 10 cm. de espacio entre esta unidad y cualquier otro compo nenta situado sobre ella.

Bij plaatsing dient u een ruimte van minstens 10 cm open te laten tussen dit toestel en een ander erop geplaatst komponent.

VOORZORGSMAATREGELEN

FÖRSIKTIGHETSÅTGÅRDER VID INSTALLATIONEN Se till att det finns minst 10 cm mellanrum mellan appara

CUIDADOS NA INSTALAÇÃO parat som ställs ovanpå.

Deixe um aspaço de pelo menos 10 cm entre esta unidade e qualquer outro com-ponente colocado acima.

Manne

ESPAÑOL Please check to make sure the following items are included with the main unit in the carton:

Por favor verifique asegurandose de que los siguientes articulos son empecados en la ceja pero separados de la unidad principal.

Ξ	(1) Manual de instrucciones	- 1	-
(2)	(2) Cable de encendido automático		_
C	(2) Cable de corriente CA		-

NEDERLANDS

Controleer of de volgende accessoires bij het hoofdtoestel in de (1) Gebruiksaanwijzing (2) Afstandsbedieningssnoer (3) Netsnoer doos zijn verpakt:

Bitte überprüfen Sie, ob die folgenden Teile vollständig in der Ver-packung enthalten sind:

Bedienungsanleitung.
 Fernbedienungskabel
 AC-Netzkabel

SVENSKA

Veuillez contrôler que les articles suivants sont blen joints à l'ap-pareil principal dans le carton:

FRANCAIS

(1) Mode d'emploi (2) Cordon d'alimentation de télécommande (3) Cordon électrique AC (1)

Kontrollera att följande, förutom huvudapperaten, finns med i kar-(1) Bruksanvisning (2) Kabel för fjärrstyrd stri (3) Nätsladd

Kabel för fjärrstyrd strömförsörjning

PORTUGUÊS

Certifique-se de que as seguintes peças estão incluídas na emba-lagem fora da unidade principal:

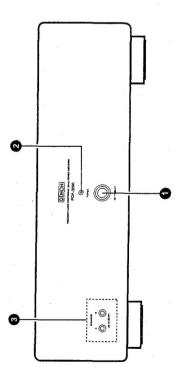
Controllare che le parti seguenti si trovino imballate con l'apparec-chio nella scatola di spediziione.

Filo di alimentazione a distanza . Filo di alimentazione CA Libretto delle istruzioni ...
 Filo di alimentazione a dista (3) Filo di alimentazione CA ...

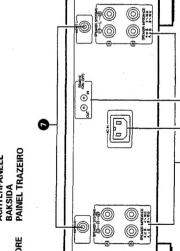
Cabo de CA :

FRONTPLATTE
PANNEAU AVANT
PANNELLO ANTERIORE FRONT PANEL

PANEL FRONTAL VOORPANEEL FRAMSIDA PAINEL FRONTAL



RÜCKWAND PANNEAU ARRIERE PANNELLO POSTERIORE REAR PANEL



PANEL TRASERO ACHTERPANEEL BAKSIDA PAINEL TRAZEIRO

NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION NOTE SULL'USO/NOTAS SOBRE EL USO/ALVORENS TE GEBRUIKEN/OBSERVERA OBSERVAÇÕES QUANTO AO USO





- Avoid high temperatures
 Allow for kuffrent hast dispersion when
 installed on a reck.
 Formation is brobe lemperaturen
 Reachtin Sie, daß eine ausreichend LutzikzBeachtin Sie, daß eine ausreichend Lutzikzleinin gewährlickstet wick, wenn des Geriël auf
 - ératures élevées
 - - - •
- appeara to per net kvord peparast.

 Unduk hoga temperaturar.

 Se till att det franz nojigibet til god värmaavtedning vid moneing i ett ack.

 Evire temperaturas akta.

 Chrodad suldernet alspearad de calor quando
 o equipamento for installado numa pratellera.



- Handle the power cord carefully.
 Hold the plug when unphyging the cord.
 Gehen Sie vorsichtig mit dem Netzkabel um.
 Halten Sie das Kabel am Stecker, wenn Sie den
- Stecker herausziehen. Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cor
 - don. Manneggiate il filo di alimantazione con cura. Agite per la spina quando scollegate il cavo dal

0

- Maneje el cordón de energia con cuidado. Sostenga el enchufe cuando desconecte el Hanteer het net:
 Houd het snoer!

 - ze moet worden aan- of losgekoppelid. Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. Manuseie com cuidado o fio condutor de ener
- gia. Segura a tomada ao desconactar o fio.

- Do not let foreign objects in the set.
 Keine fremden Gegenstände in das Gerät kommen lassen.
 Ne pas laisser des objets étrangers dans l'ap-
 - Keep the set free from moisture, water, and dust.
- Hellen State Gea't von Feuchtigkeit, Wesser
 Word Stab, Brin Geas Gea't von Feuchtigkeit, Feau eit is
 Profeiger Repariell contre Thurndiste, Teau eit is
 poorsieke.
 Terest intelle konnan dalf unnigst, dalf zoga e
 delle pokeres.
 Mantenge ei equipo lière de hurndisté, agir z

 E'importante che nessun oggetto è inserio all'interno dell'unità.
 No doje objetos extraños dentro del equipo.
 Lati geen vieemde voorvespen in di apparaat vanen.

Se till att främmande föremål inte tränger in :

E' imor-

apparaten.
 Não deixe objetos estranhos no aparelho.

- Leavigen vochtigheid, water of stof in het apparent binnendringen.
 Ursätt inte apparent för fukt, vatten och
 - Mantenha o aparelho livre de qualquer umida-de, água ou poeira.



Unplug the power cord when not using the set for long periods of time.
 When das Gelfar eine längere Zeir nicht verwende werden soll, trennen Sie das Neitkabel vom Netzstecker.

•

att inte insektsmedel på spraybruk, ben-ch thinner kommer i kontakt med appara-

tens höije. Não permita que inseticidas, banzina e dissol vente entrem em contacto com o aparelho.

con insetticid, benzolo o solventi.
No permita el contecto de insecticidas, gasolina y diuyentes con el equipo.
Laat geen insektenverdeligende middelen,
benzine of verfverdunner met dit apparast in

- Observative unclaimentation berague pleasement in the control of definitional resists post desired in the compares of periodical series post discoverable of the definitional resistant and the definition of the control of the contro



*(For sets with ventilation holes)

- deckt verdan.

 Non coprite i for of verdanion.

 Non coprite i for of verdiazione.

 No restituya los olificos de verdiazione.

 No verdialisteoleran mogen niet word babolistearing periori mogen niet word habolistearing periori mogen niet word i figo prite tili verdiazionsoppringena.

 Nel obstutu so orificos de verdiazionsopringena.
- nble or modify the set in any
- d'une menière ou c'ene autres.

 Non smontite mei, en modificate l'unit in nessum modi.

 Nutra desarme o modifique el equipo de _{intre}.

 Ours manner.

 Noci di apparat demonteren di op andre o volte modifiére.

 Noci di apparat demonteren di op andre o volte modifiére.

 In alte sa apparatement l'estak inte bygap on l'annière apparatement l'estak inte bygap on

6

NAMES AND FUNCTIONS OF PARTS

Power switch (POWER)

When this switch is pressed, the power is turned on, the POWER indicator 🛭 flashes for some seconds and then lights steadi-When this switch is pressed again, the power is turned off. ly, and stable operation condition is reached.

Power indicator

This lights orange when the power is on, and turns red when the power is turned off with remote terminal \iint

Speaker selector buttons (SPEAKERS)

When button B is set to the "ON (🖛)" position, sound is produced from the speaker systems connected to the "B" speaker When both the A and B buttons are set to the "ON (🖛)" position, sound is produced from the speaker systems connected When button A is set to the "ON { 🛋)" position, sound is produced from the speaker systems connected to the "A" speaker

to both the "A" and "B" speaker terminals.

When both the A and B buttons are set to the "OFF (=)" position, no sound is produced from the speaker systems. Use this when listening over headphones.

Speaker System terminal (SPEAKER SYSTEMS)

Connect the speaker systems here.

Remote terminal (REMOTE ON-OFF) 6

This terminal is used for remote control of the pre-amplifier. A low-voltage DC current is emitted from the terminal to turn The main unit's power can be turned on and off with the pre-amplifier's remote control unit when the pre-amplifier and main unit's input terminal are connected with the included cable. When the main unit's output terminal is connected to the input terminal of another power amplifier, the other power amplifier's power can be turned on and off. on the power of a DENON pre-amplifier.

AC IN

Connect the included AC power cord here.

Input terminal (INPUT)

This is a input terminal (RCA connector). Connect it the pre-amplifier's pre-out terminal.

PROTECTOR

Various protector circuits are included in this unit. The output is interrupted in the following case:

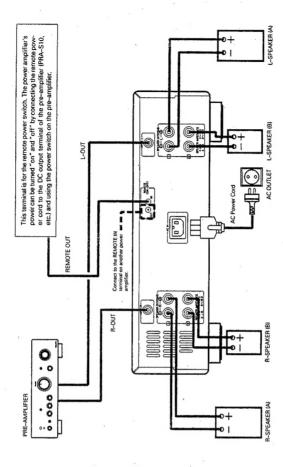
- Muting time, which lasts for several seconds after the power is turned "on". When the offset voltage of the power amplifier has drifted outside the prescribed range.
 - When the temperature of the power amplifier is abnormally high.
- When a speaker terminal is shorted or a speaker's impedance is extremely low

This set is equipped with a heat-dispersing motor fan. The motor lan operates when it senses that the temperature inside the set is high and the heat must be dispersed.

CONNECTIONS

Precautions When Making Connections

- Do not plug the power cord into the power outlet until all the connections have been completed.
 After checking the left and right channels, make proper connections: L with L, and R with R.
 Insert the plugs securely. Incomplete connections will cause noise to be generated.
 Note that bundling pin-plug code with the power cord or plasting pin-plug codes close to the power transformer might lead
 - to the occurrence of hum or noise.



Connection to the speaker system

- When connecting the speaker terminals to the speaker systems, make certain to connect the polarities correctly (+ to + and
 to -). If the polarities are incorrect when the two are connected, the center are of the sound will be lacking, the positions
 of the musical instruments will not be clear, and the stereo directional sensitivity will be impaired.
 During connection, be careful that the center wires in the speaker cords do not protrude from the terminals to contact any other
 - terminal, and that the central wires in the separate speaker cords do not contact each other.

Speaker impedance

- When only one of the A or B terminals is used, the speakers that are to connected should have a nominal impedance of 4 to 16 Q/ohms.
- When the two sets (A+B) are to be used at the same time, use of speakers whose impedance is outside the range from 8 to 16 Ω/ohms will result in malfunction. Be careful not to let this happen.
 - Speakers with a lower impedance may cause the protective circuitry to operate

TROUBLESHOOTING

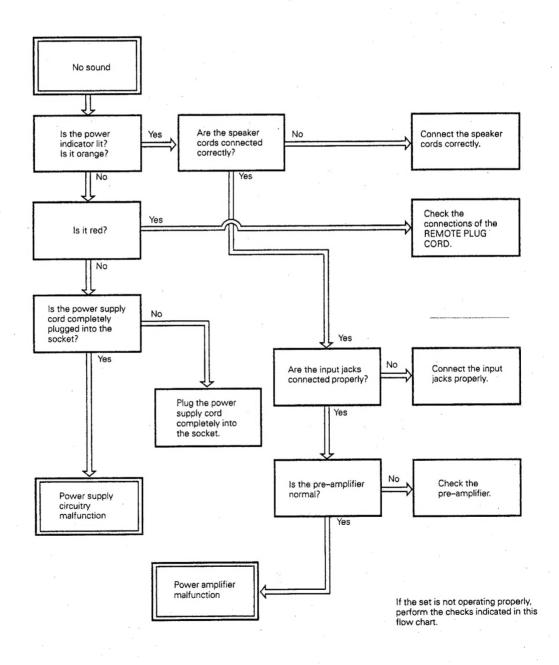
Before troubleshooting, be sure to check whether your audio system is really the source of the problem.

If you think the amplifier is out of order, first check the following one more time:

- 1. Are all the connections correctly made?
- 2. Is the set being operated properly in accordance with the Operating Manual?
- 3. Are the speakers and pre-amplifier being operated correctly?

If the set does not operate properly, perform the checks indicated in the flow chart below.

If none of the items listed apply to the difficulty, the amplifier is probably out of order. Turn off the power immediately, and contact the outlet where you purchased the amplifier or your nearest DENON dealer.



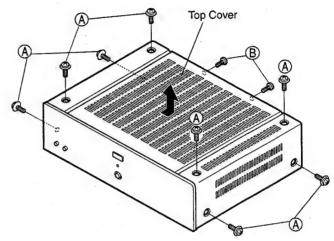
Technical Data (typical value)	Technische Daten (typische werte)	Caractéristiques techniques (valeur caractéristique)			
POWER AMPLIFIER SECTION	• LEISTUNGSENDS VERSTÄRKER	PARTIE AMPLIFICATEUR DEPUISSANCE			
Rated Output Power: (8 Ω /ohm Load) 20 Hz to 20 kHz, T.H.D. 0.02% (4 Ω /ohm Load) DIN, 1 kHz, T.H.D. 0.5%	Nenn-Ausgangsleistung: (an 8 Ω/Ohm) 20 Hz bis 20 kHz, T.H.D. 0,02% (an 4 Ω/Ohm) DIN, 1 kHz, T.H.D. 0,5%	Puissance nominale: (charge 8 Ω/ohms) 20 Hz à 20 kHz, D.H.T. 0,02% (charge 4 Ω/ohms) DIN, 1 kHz, T.H.D. 0,5%	120 W 200 W		
Total Harmonic Distortion:	Gesamtklirrfaktor:	Distorsion harmonique totale:	0.008%		
(-3 dB at rated output,	(-3 dB bei Nennausgang,	(-3 dB à la sortie nominale,			
8 Ω/ohms) (1 kHz)	8 Ω/Ohm) (1 kHz)	8 Ω/ohms) (1 kHz)			
Intermodulation Distortion:	Intermodulationsverzerrung:	Distorsion d'intermodulation:	0.002%		
(60 Hz/7 kHz: 4/1 at rated output,	(60 Hz/7 kHz: 4/1 bei Nennausgang,	(60 Hz/7 kHz: 4/1 sortie nominale,			
8 Ω/ohms)	8 Ω/Ohm)	sur 8 Ω/ohms)			
Power Band Width:	Netzbandbreite:	Bande passante:	5 Hz ~ 50 kHz		
(8 Ω/ohms, T.H.D. 0.05%)	(8 Ω/Ohms, Klirrfaktor 0,05%)	(8 Ω/ohms, D.H.T. 0,05%)			
Frequency Response:	Frequenzgang:	Réponse en fréquence:	1 Hz ∼ 100 kHz		
+ 0, -3 dB (at 1 W)	+0, -3 dB (bei 1 W)	+0, -3 dB (à 1 W)			
Input Sensitivity:	Eingangsempfindlichkeit:	Sensibilité d'entrée:	1.1 V		
Normal in:	Normaleingang:	Normal:			
Input Impedance:	Eingangsimpedanz:	Impédance d'entrée:	47 kΩ/kohms		
Normal in:	Normaleingang:	Normal:			
Output Impedance:	Ausgangsimpedanz:	Impédance de sortie:	0.1 Ω/ohm (1 kHz)		
S/N Ratio:	Rauschabstand:	Rapport S/B:	110 dB		
(IHF, A-weighting) (Normal)	(IHF, A-bewertet) (Normal)	(IHF, pondéré A) (Normal)			
Output Terminals: Speakers A or B 4 Ω /ohm \sim 16 Ω /ohm A + B 8 Ω /ohm \sim 16 Ω /ohm	Ausgangsklemmen: Lautsprecher A oder B 4 Ω /Ohm \sim 16 Ω /Ohm A + B 8 Ω /Ohm \sim 16 Ω /Ohm	Bornes de sortie: Enceintes A ou B 4 Ω /ohms \sim 16 Ω /ohms A + B 8 Ω /ohms \sim 16 Ω /ohms			
Power Supply:	Netzteil:	Alimentation:	AC 230 V / 50 Hz		
Power Consumption:	Stromaufnahme:	Consommation:	330 W		
Dimensions:	Abmessungen:	Dimensions:	434 (W) × 135 (H) × 353 (D) mm		
(Including control knobs and feet)	(einschlieälich Reglern und Füßen)	(avec les commandes et les pieds)	(17-3/32" × 5-11/32" × 13-29/32")		
Weight:	Gewicht:	Poids:	12.3 kg (27 lbs 2 oz)		

- Specifications and contents are subject to change without notice for purposes of improvement.
 Änderungen des Inhalts und der technischen Daten zum Zwecke der Verbesserung vorbehalten.
 Spécifications et contenu sont sujets à modification sans préavis.

DISASSEMBLY (POA-T3)

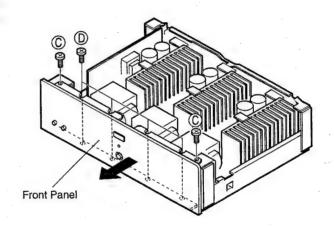
1. Top Cover

Remove 8 screws (A) fixing the Top Cover and 2 screws (B) mounting the Rear Panel. Detach the Top Cover as shown in arrow direction.



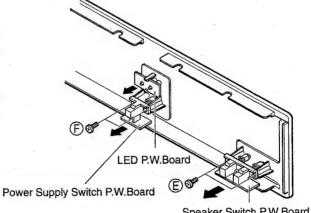
2. Front Panel

Remove 4 upper screws (D) and 2 screws (C) fixing the Front Panel and detach the Front Panel as shown in arrow direction.



3. Each P.W.Board of Front Panel

- Speaker Switch P.W.Board Remove 2 screws (E) fixing the Speaker Switch P.W.Board and detach the Speaker Switch P.W.Board as shown in arrow direction.
- Power Supply Switch P.W.Board Remove 2 screws (F) mounting the Front Panel and detach the Power Supply Switch P.W. Board as shown in arrow direction.
- LED P.W.Board Undo 2 Hooks and detach the LED P.W.Board.



Speaker Switch P.W.Board

4. Each P.W.Board and Fan of Rear Panel

Protector P.W.Board

Remove 3 screws ⑤ fixing the bracket. Detach the Protector P.W.Board as shown in arrow direction.

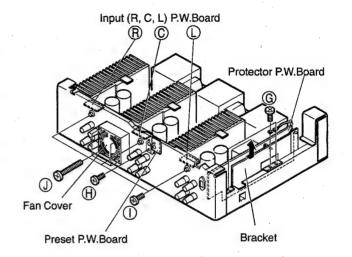
Preset P.W.Board

Remove 4 screws \bigoplus fixing the Rear Panel and detach the Preset P.W.Board.

• Input (R, C, L) P.W.Board
Remove each screw fixing the Rear Panel and detach

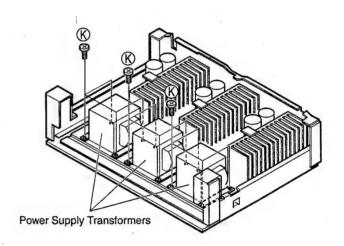
each Input (R, C, L) P.W.Board.
• Fan Cover

Remove 4 screws (J) and detach the Fan Cover.



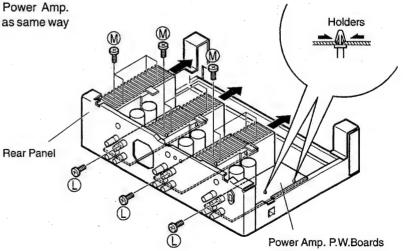
5. Power Supply Transformer

Remove 12 screws K mounting the Chassis and detach 3 Power Supply Transformers.



6. Power Amp. P.W.Board

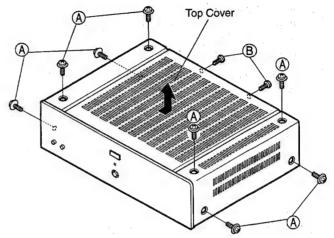
Undo 2 Holders, remover a screw (L) fixing the Rear Panel and 4 screws (M) fixing Radiator Plate of Power Amp. P.W.Board. Detach 3 Power Amp. P.W.Boards as same way above.



(POA-T2/3200)

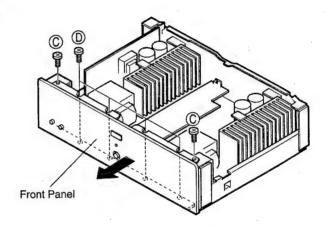
1. Top Cover

Remove 8 screws (A) fixing the Top Cover and 2 screws (B) mounting the Rear Panel. Detach the Top Cover as shown in arrow direction.



2. Front Panel

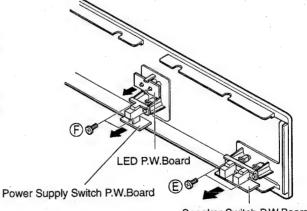
Remove 4 upper screws ① and 2 screws ② fixing the Front Panel and detach the Front Panel as shown in arrow direction.



3. Each P.W.Board of Front Panel

- shown in arrow direction.

 Power Supply Switch P.W.Board
 Remove 2 screws mounting the Front Panel and
- detach the Power Supply Switch Board as shown in arrow direction.LED P.W.Board
- LED P.W.Board
 Undo 2 Hooks and detach the LED P.W.Board.



Speaker Switch P.W.Board

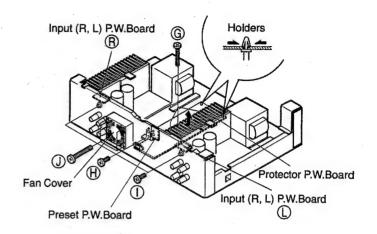
4. Each P.W.Board and Fan of Rear Panel

Protector P.W.Board

the Preset P.W.Board.

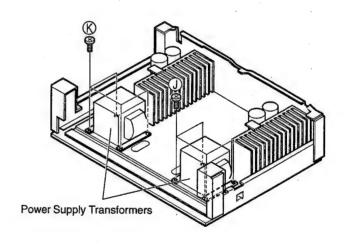
Undo 2 Holders and remove 3 screws (a) fixing Protector P.W.Board. Detach the Protector P.W.Board as shown in arrow direction.

- Preset P.W.Board
 Remove 4 screws (H) fixing the Rear Panel and detach
- Input (R, L) P.W.Board
 Remove each screw itsing the Rear Panel and detach each Input (R, L) P.W.Board.
- Fan Cover (POA-T2 only)
 Remove 4 screws ① and detach the Fan Cover.



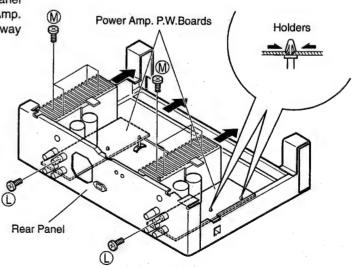
5. Power Supply Transformer

Remove 8 screws (K) mounting the Chassis and detach 2 Power Supply Transformers.

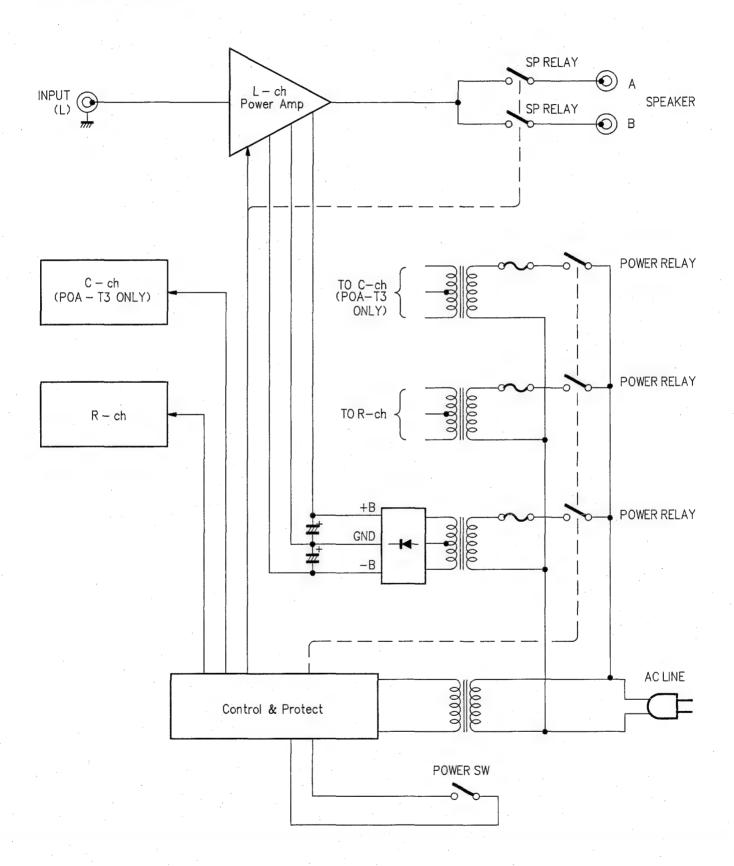


6. Power Amp. P.W.Board

Undo 2 Holders, remover a screw ① fixing the Rear Panel and 4 screws M fixing Radiator Plate of Power Amp. P.W.Board. Detach 2 Power Amp. P.W.Boards as same way above.



BLOCK DIAGRAM



METHOD OF ADJUSTMENT

IDLE CURRENT ADJUSTMENT

- 1. Keep the unit away from direct wind blown by an air-conditioner and an electric fan, and keep the unit under normal conditions. Adjust the range of ambient temperature to 15 - 30°C.
- 2. Set the following conditions as follows:

 - POWER (Power switch) to off SPEAKERS (Speaker Terminal) to no load (Speakers Disconnected)(,But SP-A SW to on.)
 - Disconnect input terminal

Adjustment

- 1. Connect DC Voltmeter to Test points (TP101) of 1U-2909.
- 2. Turn POWER Switch "ON".
- 3. Adjust VR102 so that the DC Voltmeter reads 2 \pm 0.5mV.
- 4. Then after 3 minutes warn-up time, readjust VR102 so that the DC Voltmeter reads 2 \pm 1mV.
- 5. Adjust each channel as same way above.

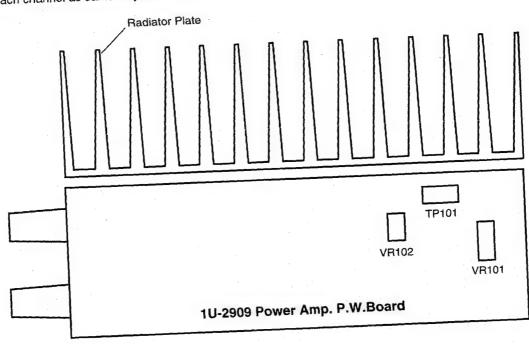
OFFSET ADJUSTMENT

- 1. Keep the unit away from direct wind blown by an air-conditioner and an electric fan, and keep the unit under normal Setup conditions. Adjust the range of ambient temperature to 15 - 30°C.
- 2. Set the following conditions as follows:

 - POWER (Power switch) to off SPEAKERS (Speaker Terminal) to no load (Speakers Disconnected)(,But SP-A SW to on.)
 - Disconnect input terminal

Adjustment

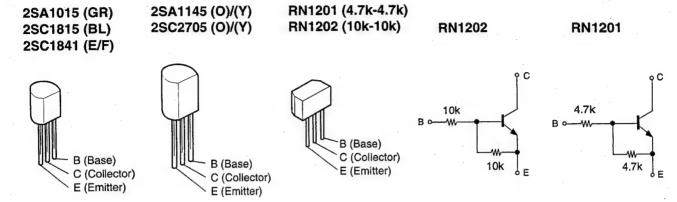
- 1. Connect Speaker A terminal to DC Voltmeter and oscilloscope.
- 2. Adjust oscilloscope range to 5mV/div.
- 3. Turn Power Switch "ON".
- 4. Adjust VR101 so that the DC Voltmeter reads 0 \pm 1mV.
- 5. Then after 3 minutes warn-up time, readjust VR101 so that the DC Voltmeter reads 0 \pm 1mV.
- 6. Adjust each channel as same way above.

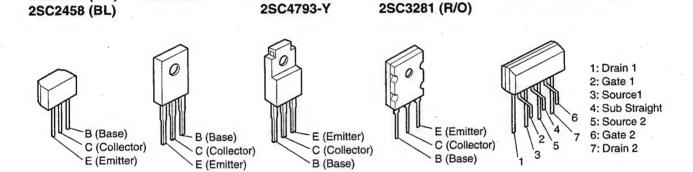


SEMICONDUCATORS

TRANSISTORS

2SA1048 (GR)





2SA1837-Y

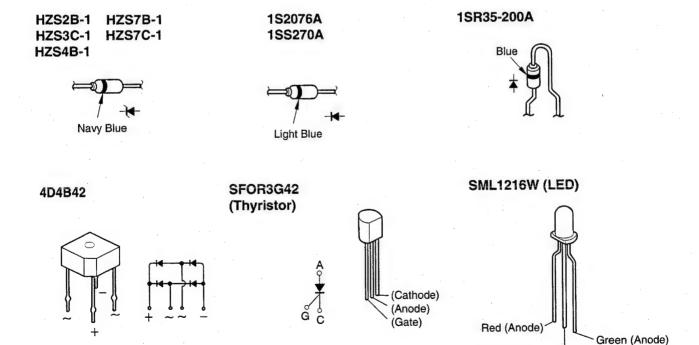
2SA1302 (R/O)

2SK389 (GR)/(BL)/(V)

Common (Cathode)

DIODES (included LED)

2SC3421



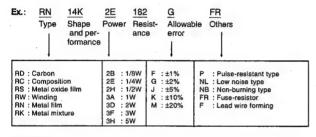
NOTE FOR PARTS LIST

- Part indicated with the mark " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "!" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.) **WARNING:**

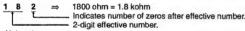
Parts marked with this symbol A have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

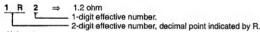
Resistors



* Resistance

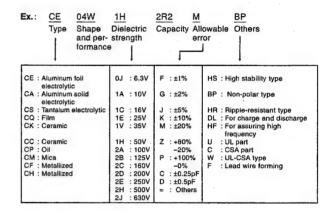


· Units: ohm

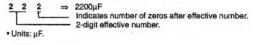


• Units: ohm

Capacitors



* Capacity (electrolyte only)



* Capacity (except electrolyte)

 When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF PRINTED WIRING BOARD

1U-2909 MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref No.	Part No.	Part Name
SEMICON	DUCTORS	GROUP		∆. F134,135	243 2061 000	Wire wound 0.1ohm/3W
TR101	275 0045 012			∆. P138.139	244 2051 929	Metallic 820ohm 1W
TR103,104	273 0235 923	Transistor 2SC1841 (E/F)		∆ R140	244 2051 929	Metallic 820ohm 1W
TR105,106	271 0168 900	Transistor 2SA1145 (O)/(Y)		∆ R141,142	241 2380 921	Carbon 1.2kohm 1/4W
TR108	273 0281 906	Transistor 2SC2705 (O)/(Y)		Δ R144	244 2043 937	Metallic 10ohm 1W
TR109	273 0423 007	Transistor 2SC4793-Y		∆ R147	244 2050 904	Metallic 22ohm 1W
TR110		Transistor 2SA1837-Y	·	∆ R148	244 2051 967	Metallic 4.7ohm 1W
TR115	273 0281 906	Transistor 2SC2705 (O)/(Y)	[A R151		Carbon 100ohm 1/4W
					241 2420 904	
TR116,117	273 0235 923	Transistor 2SC1841 (E/F)		▲ R152	244 2051 929	Metallic 820ohm 1W
TR304	271 0191 906	Transistor 2SA1048 (GR)		∆ R154	241 2429 963	Carbon 1Mohm 1/4W
D101~105	276 0432 903	Diode 1SS270A				
D106,106	276 0424 005	Diode 4D4B42 (LC1)		CAPACIT	ORS GROL	IP .
D107,108	276 0432 903	Diode 1SS270A		C000	255 6181 073	Film 27pF/400V
				C101,102	254 4356 014	Electrolytic 100µF/50V
ZD101,102	276 0466 908	Zener diode HZS7C-1		C103	255 4235 950	Film 6800pF/100V
ZD103	276 0454 907	Zener diode HZS3C-1		C104	255 4235 921	Film 270pF/100V
ZD104	276 0456 905	Zener diode HZS4B-1		C105	255 4235 918	Film 100pF/100V
ZD105,106	276 0466 908	Zener diode HZS7C-1		C106,106	253 4480 903	Ceramic 27pF/250V
22100,100	2,00,000			C109	255 4235 918	Film 100pF/100V
PT101,101	279 0034 067	Photo transistor		C111	255 4232 924	Film 39pF/100V
F 1 101,101	2130004001	PTH9M04BB222TS2F333		C112	255 4235 989	Film 470pF/100V
		F 1F191010400222132F333				
	· .			C115,116	254 4498 707	Electrolytic 220µF/25V
				C117	254 4313 963	Electrolytic 1µF/50V
	RS GROUP			C118,118	254 4356 027	Electrolytic 22µF/50V
VR101	211 6175 011	Semi fixed resistor 100ohm	V06PB101(Sermet)	C122	254 4313 963	Electrolytic 1µF/50V
VR102	211 6075 037	Semi fixed resistor 10kohm	V06PB103(Sermet)	C124	255 4235 934	Film 0.01µF/100V
VR103,103	211 0741 008	Variable resistor 50kohm	V1610V25FB503	C125	255 4199 973	Film 0.01µF/50V
			(POA-3200 only)	C126,127	255 4235 743	Film 0.022µF/100V
				C130	255 4237 903	Film 2700pF/100V
. R101	241 2426 953	Carbon 51kohrn 1/4W	RD14B2E513J(PSNB)	C131,132	256 1042 903	Metalizde 0.1µF/250V
. R102	241 2381 904	Carbon 3.3kohm 1/4W	PD14B2E332JNBS	C133,134	255 4237 903	Film 2700pF/100V
R103	241 2375 981	Carbon 22ohm 1/4W	RD14B2E22QINBS	C138	255 4235 918	Film 100pF/100V
R104,105	241 2381 946	Garbon 4.2kohm 1/4W	RD14B2E472JNBS			
R106	241 2424 968	Carbon 8:2kohm 1/4W	RD14B2E822J(PSNB)			
. R107	241 2879 987	Carbon 1kehm 1/4W	RD14B2E102JNBS	OTHERS	PARTS GR	OUP
R108		Carbon 30kohm 1/4W	RD14B2E303J(PSNB)		203 0386 093	1P SIN connector Ass'y
R109	241 2429 963	Carbon 1Mohrn 1/4W	RD14B2E105J(PSNB)		203 0602 065	1P SIN cord Ass'y
R110-113		Metallic 3.3kohm 1W	RS14B3A332JNBS(S)	JK101	204 8500 007	1P Pin jack (WH)
R114	241 2380 921	Carbon 1.2kohm 1/4W	RD14B2E152JNBS	OKTO	205 0185 038	3P wire holder
		and the second s		TD404		
R115,116	241 2313 969	Carbon 47ohm 1/4W	RD14B2E470GFRS	TP101	205 0190 036	3P NH connector base
R117,118	241 2316 937	Carbon 470chm 1/4W	RD14B2E471GFR	CB101	205 0278 039	3P EH connector base (Bl
R119	241 2371 985	Carbon 91ohm 1/4W	RD14B2E910GFRS	CB102	205 0233 032	3P EH connector base
. R120		Metallic 10kohm 1W	RS14B3A103JNBS(S)	CN101	205 0278 039	3P EH connector base (Bl
R121	241 2424 942	Carbon 6.8kohm 1/4W	RD14B2E682J(PSNB)	CN102	205 0233 032	3P EH connector base
R123,124	241 2313 901	Carbon 100ohm 1/4W	RD14B2E101GFRS	CN103	205 0355 062	6P KR connector base (L)
R127	241 2387 940	Carbon 4.7ohm 1/4W	RD14B2E4R7JNBS	SP101	205 0991 002	4P Terminal (S-GND)
R128	241 2378 920	Carbon 220ohm 1/4W	RD14B2E221JNBS	RL101,102	214 0167 005	Relay(G5Z-2A)
R129	241 2387 940	Carbon 4.7ohm 1/4W	RD14B2E4R7JNBS	L101	235 0068 004	inductor(1MH)
R130,131	243 2061 000	Wire wound 0:1ohm/3W	RW99=3F0R1K		415 0309 013	PVC tube (L=10)
					1	, ,

Remarks
RW99=3F0R1K
RS14B3A821JNBS(S)
RS14B3A821JNBS(S)
RD14B2E152JNBS
RS14B3A100JNBS(S)
RS14B3A220JNBS(S)
RS14B3A4R7JNBS(S)
RD14B2E101J(PSNB)
RS14B3A821JNBS(S)
RD14B2E105J(PSNB)

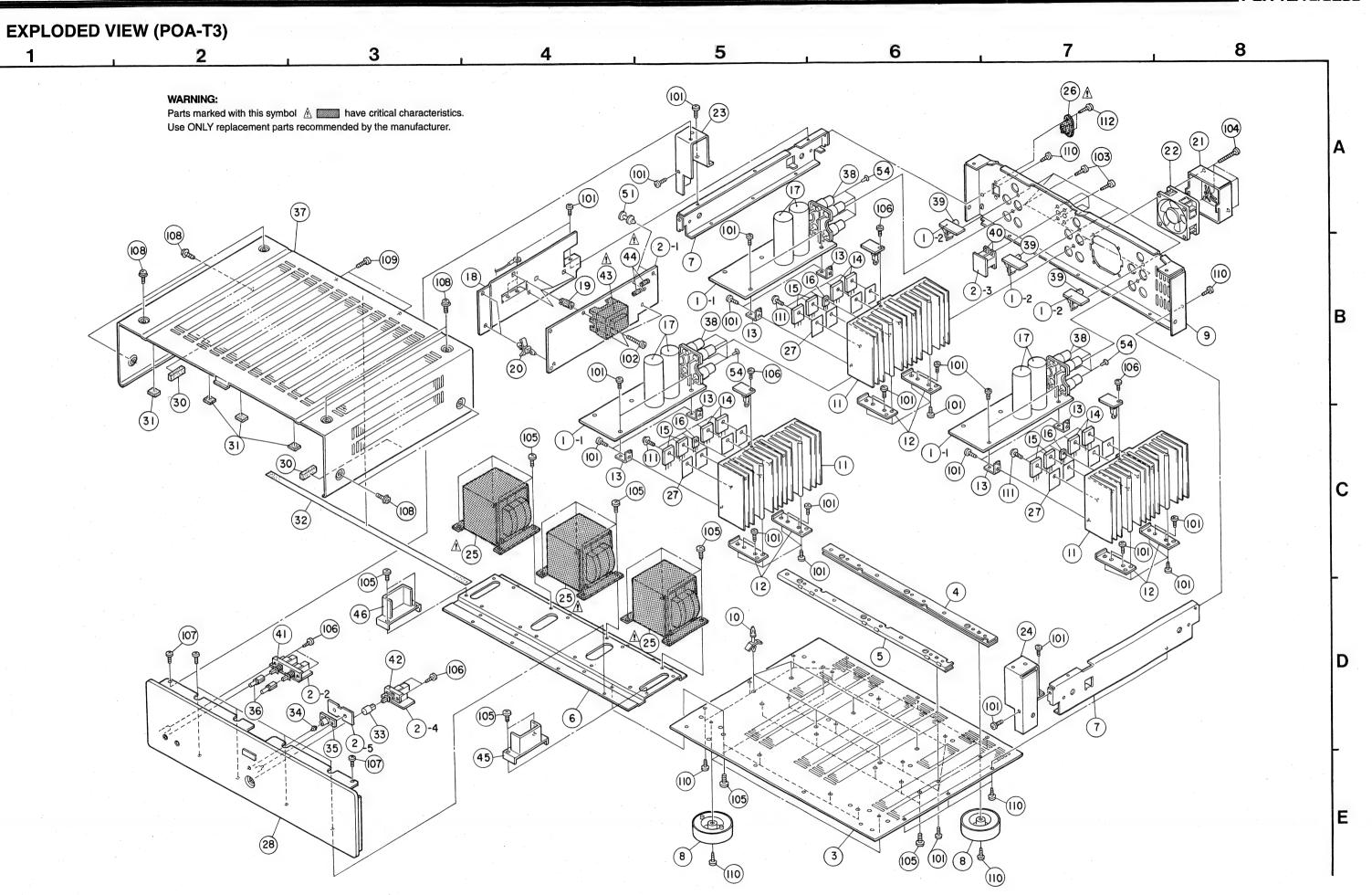
CQ09S2G270KF(B) CE04W1H101M(ARS) CQ93P2A682J(NH) CQ93P2A271J(NH) CQ93P2A101J(NH) CC45SL2H270J CQ93P2A101J(NH) CQ93P2A390J(NH) CQ93P2A471J(NH) CE04W1E221MC(ARS) CE04W1H010M(ASF) CE04W1H220M(ARS) CE04W1H010M(ASF) CQ93P2A103J(NH) CQ92M1H103J(MRZ) CQ93P2A223J(NH) CQ93P2A272J(NH) CF93A2E104K CQ93P2A272J(NH) CQ93P2A101J(NH)

1U-2910 CONTROL P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS	GROUP		C310	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
TR301	273 0317 906	Transistor 2SC2458(BL)		C311	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
TR302,303	269 0023 903	Transistor RN1201(4.4k-4.7k)		C312	254 4260 919	Electrolytic 0.22µF/50V	CE04W1HR22M
TR304	271 0191 906	Transistor 2SA1048(GR)	•	C313	254 4254 792	Electrolytic 2200µF/16V	CE04W1C222MC
TR305,306	273 0317 906	Transistor 2SC2458(BL)		C314	254 4256 949	Electrolytic 100μF/25V	CE04W1E101M
TR307	273 0317 906	Transistor 2SC2458(BL)	(POA-T3G only)	C315	254 4256 949	Electrolytic 100µF/25V	CE04W1E101M
TR308	273 0198 015	Transistor 2SC1815(BL)					(POA-T3G only)
TR309	273 0317 906	Transistor 2SC2458(BL)					
TR310	271 0102 924	Transistor 2SA1015(GR)					
TR311	271 0191 906	Transistor 2SA1048(GR)		OTHERS	PARTS GR	OUP	
TR312,313	273 0317 906	Transistor 2SC2458(BL)		A	202 0040 909	Fuse dip	
TR314	271 0191 906	Transistor 2SA1048(GR)				·	
TR315~317	273 0317 906	Transistor 2SC2458(BL)			203 0644 007	1P SIN cord Ass'y	
TR318	273 0235 923	Transistor 2SC1841(E/F)					
TR319	271 0191 906	Transistor 2SA1048(GR)		JK301,302	204 8101 008	2P Power jack	
TR320	273 0235 923	Transistor 2SC1841(E/F)					
TR321	271 0191 906	Transistor 2SA1048(GR)	(POA-T3G only)	企 CN001	205 0606 025	2P Wrapping terminal	
TR322	273 0235 923	Transistor 2SC1841(E/F)	(POA-T3G only)	A CN002,003	205 0606 025	2P Wrapping terminal	(POA-3200/POA-T2G)
TR324	269 0025 901	Transistor RN1202(10k-10k)	(POA-T3G only)	∆ CN002,003	205 0606 038	3P Wrapping terminal	(POA-T3G)
TR325	269 0025 901	Transistor RN1202(10k-10k)		CN301,301	205 0233 032	3P EH connector base	
TR326	269 0023 903	Transistor RN1201(4.4k-4.7k)		CN302,302	205 0277 030	3P EH connector base (RD)	
TR327	273 0317 906	Transistor 2SC2458(BL)		CN303,303	205 0296 037	3P EH connector base (YW)	
				CN304~306	205 0233 061	6P EH connector base	
D001	276 0432 903	Diode 1SS270A	(POA-T3G only)	CN307,307	205 0276 031	3P EH connector base (BU)	
D002,003	276 0432 903	Diode 1SS270A		CN308,308	205 0949 038	3P EH connector base (GR)	
D301~303	276 0432 903	Diode 1SS270A					
D304~309	276 0553 905	Diode 1SR35-200A		∆ F001	206 1015 061	Fuse 2A	(POA-T3G only)
D310~313	276 0432 903	Diode 1SS270A		∆ F002,003	206 1015 061	Fuse 2A	
							·
ZD301	276 0450 901	Zener diode HZS2B-1		SW301	212 4791 002	2P push switch	
ZD302,303	276 0456 905	Zener diode HZS4B-1		SW303	212 1056 009	1P push switch	·
ZD304	276 0456 905	Zener diode HZS4B-1	(POA-T3G only)				
ZD305	276 0465 909	Zener diode HZS7B-1		⚠ FL001	214 0142 004	Relay(TV-5)	(POA-T3G only)
			·	A RL002,003	214 0142 004	Relay(TV-5)	
SC301	279 0038 908	SCR SFOR3G42					
				A T301	233 5746 008	Power trans (EU mini)	
RESISTOR	RS GROUP	(Not included carbon f	ilm ±5% 1/4W)	P301	279 0034 041	Thermistor	
						PTH9M04BD222TS2F333	
CAPACITO	ORS GROU			LD001	393 9491 004	LED (SML1216W)	
A C001	253 8014 702	Ceramic 0.01µF/400V AC	CK45F2GAC103MC		513 9406 004	Fuse label	T2.0A
		1000	(POA-T3G only)				
₫. C002,003	253 8014 702	Ceramic 0.01µF/400V AC	CK45F2GAC103MC				
		Film 0.01µF/50V	CQ92M1H103J(MRZ)			,	
		Ceramic 0.01μF/50V	CK45F1H103Z				
	. 1	Electrolytic 10µF/16V	CE04W1C100M				
C305	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M				
			(POA-T3G only)				
		Electrolytic 220µF/10V	CE04W1A221M				
C308	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M				

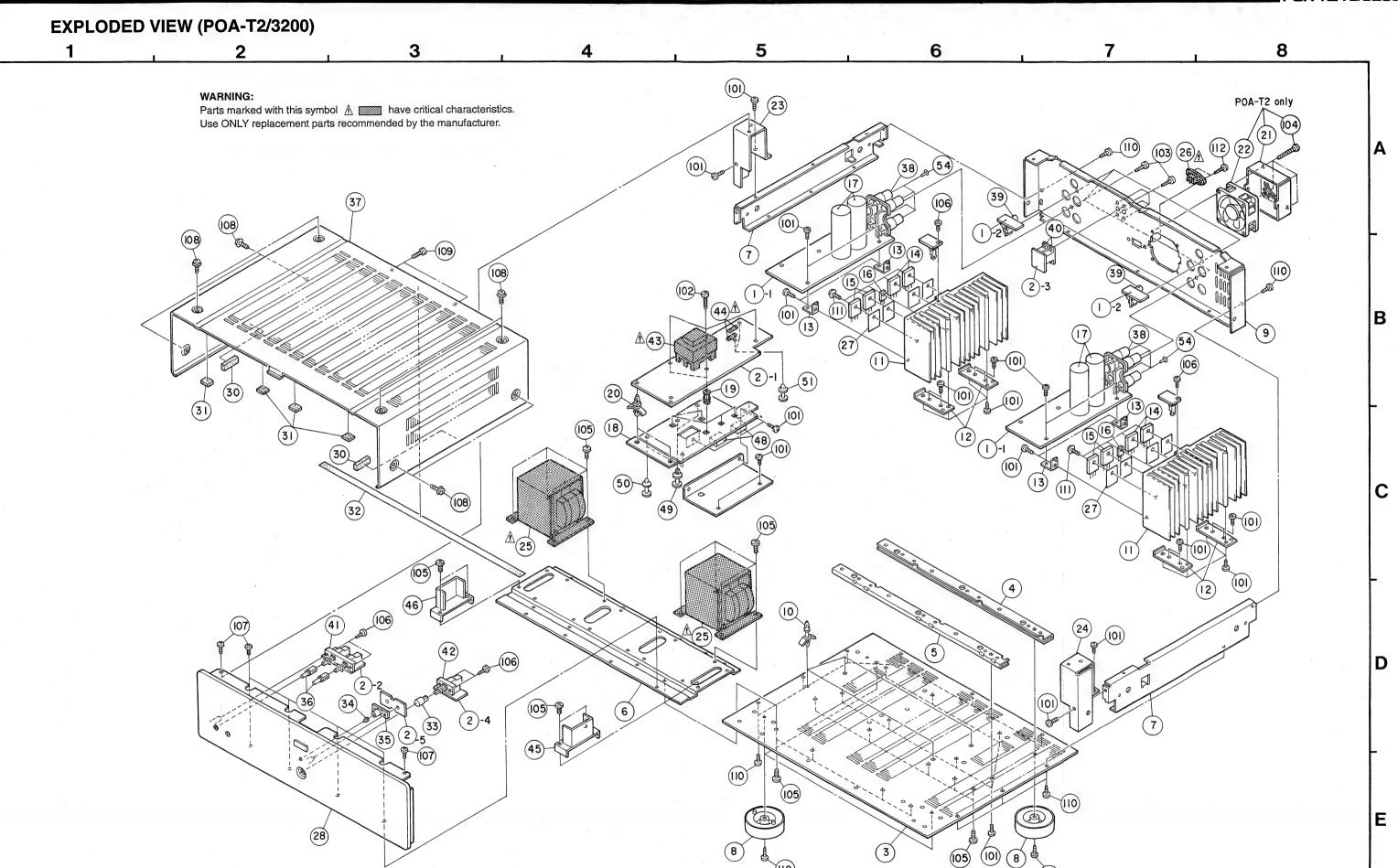
PARTS LIST OF EXPLODED VIEW (POA-T3)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref	No.	Part No.	Part Name	Remarks	Q'ty
г— 1	1U- 2909	Main P.W.B. unit Ass'y		3		45	412 9499 006	Support braket (R)		1
<u></u> ⊢1-1		Power amp. P.W.B. unit	-			46	412 9497 008	Support braket (L)		1
٦ ₁₋₂		Input P.W.B. unit				47	_			
2	1U- 2910 B	Control P.W.B. unit Ass'y		1		48	_		*	
⊢ 2-1	·	Control P.W.B. unit			•	49	· _			
2-2		SP. switch P.W.B. unit				50	-			1
2-3	-	Remote P.W.B. unit				51	412 2814 028	Card spacer (L=10)	N	2
2-4	_	Power switch P.W.B. unit			1	52	_			
L ₂₋₅	· _	LED P.W.B. unit				53	_			
3	105 1188 200	Bottom cover		1	1.	54	477 0096 007	Push rivet		12
4	412 4078 105	Angle (A)		1	*		001 0085 073	Vinyl wire	-	1
5	412 4089 107			1	*		001 0085 086	Vinyl wire		1
6		Trans bracket		1	*		203 5111 027	3P EH-EH shield	CN101×3	3
7	411 9136 117			2	*			3P EH-EH connector cord	. 🗩	2
8	104 9044 000	·	1	4	*			3P EH-EH connector cord	CN301	1
9	105 1189 319			1	★		1	3P EH-EH connector cord	CN302	1
10		P.W.B. holder		6	★		1	3P PH-PH connector cord	CN307	1
	417 0530 105			3	*			3P PH-PH connector cord	CN308	
11			4	6	÷			6P KR-KR ribbon 250	CN103A	1
12		Radiator plate		6	*			6P KR-KR ribbon 400	CN103B	1
13		P.W.B.bracket (A)	TD111 110.0	6	. × ★		415 0777 001		ONTOOD	
14		2SC3281 (R/O)	TR111,113×3					UL tube (12.7)		1
15		2SA1302 (R/O)	TR112,114×3	6	*		1	Cord holder (L50)		6
16		2SC3421 (O/Y)	TR107×3	3	*		445 0048 016	Cord holder (LSU)		l °
17		Electrolytic 6800µF/71V	C128,129×3	6						
18		P.W.B.bracket (IN)		1	SCF			T	T	1 45
19		P.W.B.catcher		4		101		Screw 3×6 CBTS(S)-B		45
20		P.W.B.holder		2		102	1	Screw 3×16 CBTS(P)-B		3
21	144 2491 111			1		103	477 0064 107			10
22	421 0722 006	Motor fan		1		104		Screw 3×30 CBTS(2)-B		4
23		Front bracket (L)		1		105		Screw 4×8 CBTS(S)-B	·	25
24	412 4082 104	Front bracket (R)		1		106	473 7500 044	Screw 3×8 CBTS(P)-B		7
25	233 6200 006	Power trans (E2)		3		107	473 7015 005	Screw 3×6 CBTS(S)-B		6
26	203 3970 008	AC inlet		1		108	471 9043 008	Special screw 4×10 CBTS-S-G		8
27	415 9059 005	Insulating sheet	1.	12		109	473 7015 018	Screw 3×8 CBTS(S)-B		2
28	144 2489 259	Front panel Ass'y		1		110	473 8034 001	Screw 3×8 CBTS(B)-CU		15
29	_					111	473 8007 038	Cup screw 3×14		15
30	461 9001 001	Rubber sheet		2		112	473 7003 017	Screw 3×8 CFTS(S)-B		2
31	461 0390 012	Rubber sheet		4						
32	122 9006 004	Spacer		1	PAC	KIN	G & ACCES	SSORIES		
33	113 9303 101	Power button Ass'y		1			203 4442 001	Remote plug cord		1
34	143 0952 002	Lens		1			206 2147 006	AC cord with connector		1
35	146 1606 013	LED guide		1			501 9265 064	Carton case		1
36	113 1356 062	Push button (MARU)		2			503 9275 102	Cushion		2
37	102 9048 246			1			504 9102 003	Stylene paper		1
38		4P terminal (S-GND)	SP101×3	3			505 8006 019			1
39		1P pin jack (WH)	JK101×3	3			505 9102 006			1
40		2P power jack	JK301,302	2				Instructions manual		1
41		2P push switch	SW301	1				Color label (GOLD)		2
42		1P push switch	SW303							-
44	_ 12 1000 003	puon omiton					1		i	1
43	222 8100 007	Power trans (E2 mini)	T301							- 1



PARTS LIST OF EXPLODED VIEW (POA-T2/3200)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref	No.	Part No.	Part Name	Remarks	Q't
	1U- 2909	Main P.W.B. unit Ass'y	(POA-3200)	2	Δ	44	206 1015 061	Fuse 2A	F002,003	2
1	1U- 2909	Main P.W.B. unit Ass'y	(POA-T2G)	2		45	412 9499 006	Support braket (R)		1
1-1	_	Power amp. P.W.B. unit				46	412 9497 008	Support braket (L)		1
1-2	_	Input P.W.B. unit				47	-			
2	1U- 2910 E	Control P.W.B. unit Ass'y	(POA-3200)	1		48	461 0390 041	Rubber sheet		2
2	1U- 2910 A	Control P.W.B. unit Ass'y	(POA-T2G)	1		49	449 0050 048	Card spacer		2
r-2-1	_	Control P.W.B. unit				50	449 0050 022	Card spacer		2
2-2		SP. switch P.W.B. unit				51	412 2814 028	Card spacer (L=10)		2
2-3	_	Remote P.W.B. unit	-			52				
2-4		Power switch P.W.B. unit				53				
L ₂₋₅	_	LED P.W.B. unit				54	477 0096 007	Push rivet		8
3	105 1188 200	Bottom cover		1	*		001 0085 073	Vinyl wire		1
4	412 4078 105	Angle (A)		1	*		001 0085 086	Vinyl wire		1
5	412 4089 107			1	*		1	3P EH-EH shield	CN101×2	2
6	I .	Trans bracket		1	*		203 5134 004	3P EH-EH connector cord		2
7	411 9136 117			2	*			3P EH-EH connector cord	CN301	1
8	104 9044 000			4	*			3P EH-EH connector cord	CN302	1
9	105 1189 364	,	(POA-3200)		*			3P PH-PH connector cord	CN307	1
9	105 1189 335		(POA-T2G)	1	*		1	3P PH-PH connector cord	CN308	1
10	415 9016 035		(1 5/1 125)	4	*			6P KR-KR ribbon 250	CN103A	1
11	417 0530 105			4	*			6P KR-KR ribbon 400	CN103B	1
12	412 4080 106			4	★		415 0777 001		CITIODS	
13		P.W.B.bracket (A)		4	l		1	UL tube (12.7)	(POA-T2G only)	'
14		2SC3281 (R/O)	TR111,113×2	4	II -⊋			Cord holder (L50)	(1 OA 12d only)	6
15	1	2SA1302 (R/O)	TR112,114×2	4	^		773 0070 010	Cord Holder (LSO)		"
16		2SC3421 (O/Y)	TR107×2	2	- 00	REW			<u> </u>	
17		Electrolytic 6800µF/71V	C128,129×2	4	30	101		Screw 3×6 CBTS (S)-B		36
18	. 2	P.W.B.bracket (IN)	0120,1232	1		101		Screw 3×16 CBTS (P)-B		3
19		P.W.B.catcher	-	-5		103	477 0064 107			8
20	415 9016 019			2		104	1	Screw 3×30 CBTS (2)-B	(POA-T2G only)	4
21	144 2491 111		(POA-T2G only)	1		104	1	Screw 4×8 CBTS (S)-B	(FOA-12G only)	21
22	421 0722 006		(POA-T2G only)	1			1	Screw 3×8 CBTS (P)-B		6
23			(FOA-12G Only)	1		106		Screw 3×6 CBTS (F)-B		
23		Front bracket (L)				107		` '	, i	6
		Front bracket (R)		1 2		108		Special screw 4×10 CBTS-S-G		8
		Power trans (E2)				109		Screw 3×8 CBTS (S)-B		2
	203 3970 008			1		110		Screw 3×8 CBTS (B)-CU		15
27		Insulating sheet	(DOA 0000)	8		111		Cup screw 3×14		10
28		Front panel Ass'y	(POA-3200)	1		112	4/3 /003 01/	Screw 3×8 CFTS (S)-B		2
28	144 2489 262	Front panel Ass'y	(POA-T2G)	1 1						
29		D. 11 1			PA	CKIN	G & ACCES		Γ .	
30	461 9001 001			2			4	Remote plug cord		1
31	461 0390 012			4	Δ		•	AC cord with connector	(504 700)	1
32	122 9006 004	· ·		1					(POA-T2G)	1
33		Power button Ass'y		1			501 9285 002		(POA-3200)	1
34	143 0952 002			1			503 9275 102			2
35	146 1606 013	•		1			504 9102 003			1
36		Push button (MARU)		2			505 8006 019	•		1
37	102 9048 246	•		1			505 9102 006	•		-1
38		4P terminal (S-GND)	SP101×2	2			511 9446 000	Instructions manual	(POA-T2G)	1
39		1P pin jack (WH)	JK101×2	2			511 9449 007	Instructions manual	(POA-3200)	1
40	204 8101 008	2P power jack	JK301,302	2			513 9111 001	Color label (GOLD)		2
41	212 4791 002	2P push switch	SW301	1						
42	212 1056 009	1P push switch	SW303	1	1					
43	222 6100 007	Power trans (E2 mini)	T301	1						1



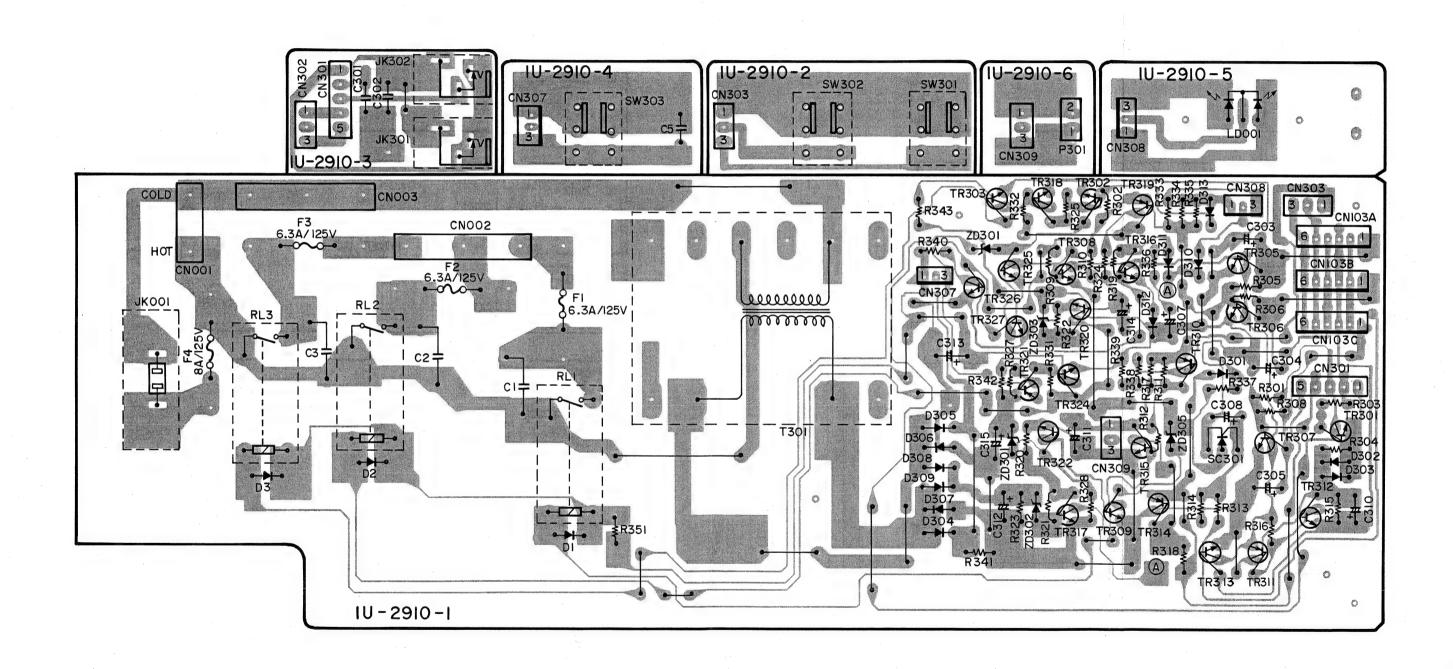
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D

1 2 3 4 5 6 7 8

1U-2910 CONTROL P.W.B. UNIT ASS'Y



E

E

IU - 2910 - 6

CN302

CN302

CN308

CN308 IU-2910-5 CN307

CN307 IU-2910-4

LED UNIT POWER SWUNIT

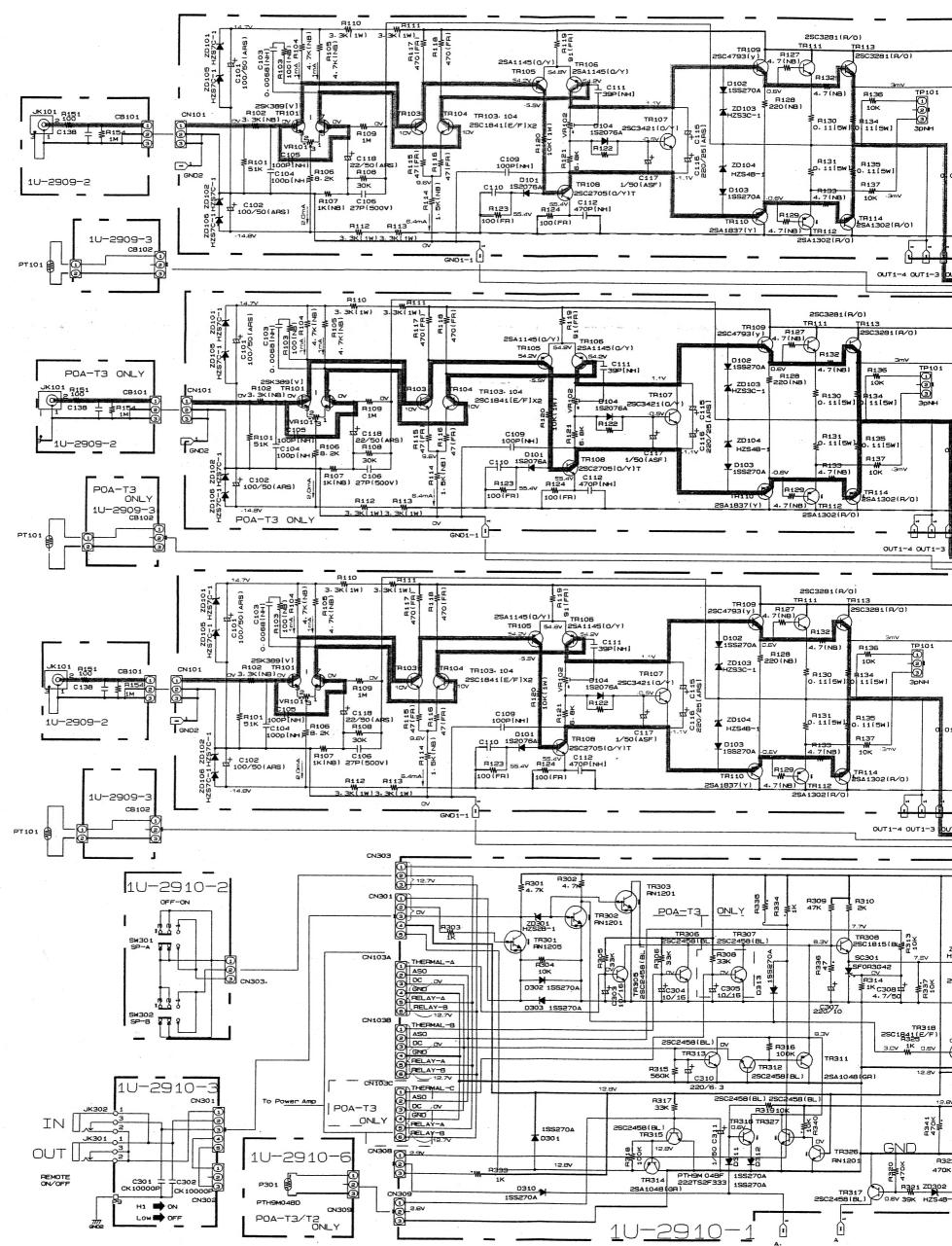
CN001

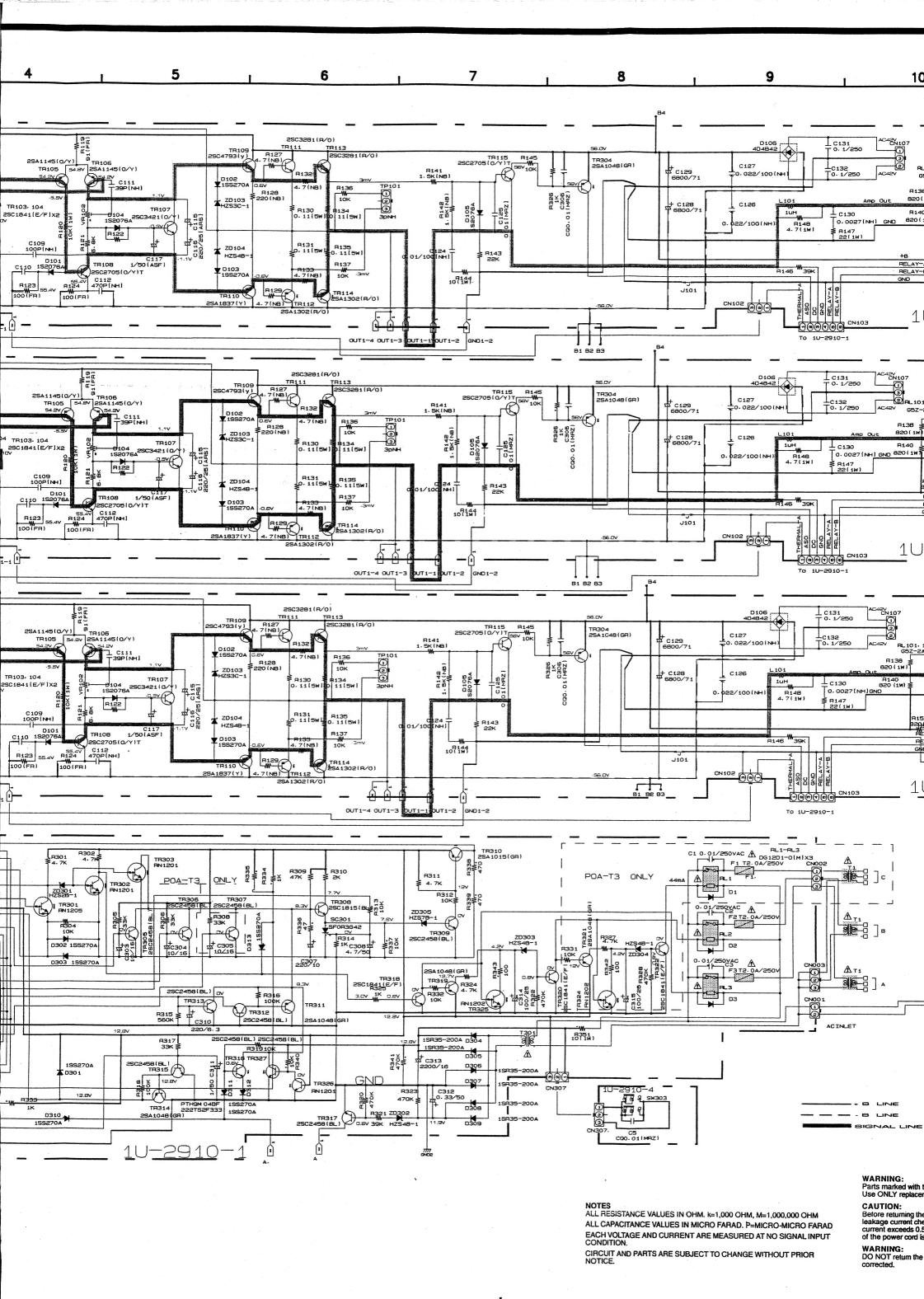
CN002

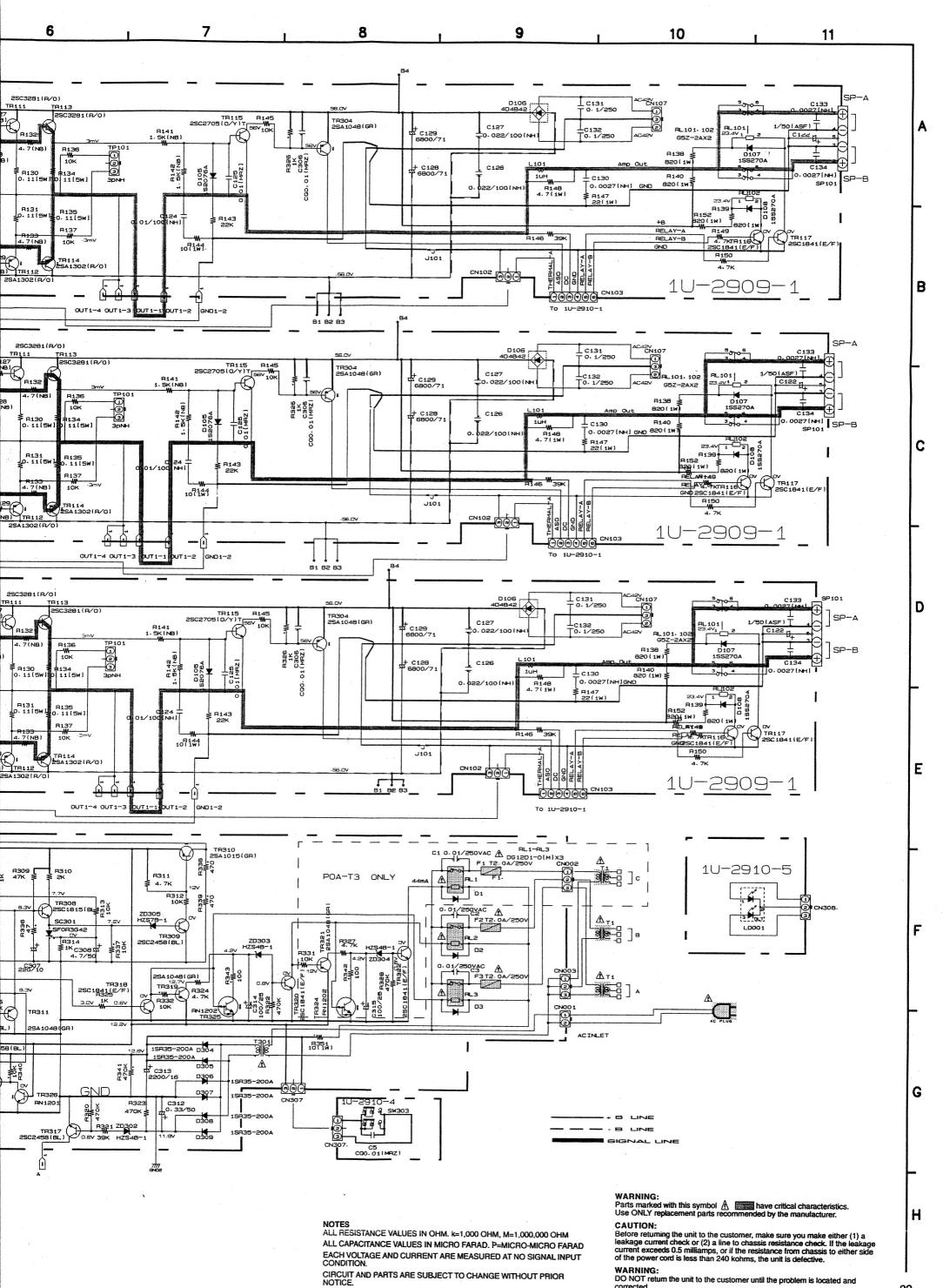
CN103A

CN003

AC LINE







29

corrected.